

FIG. 1

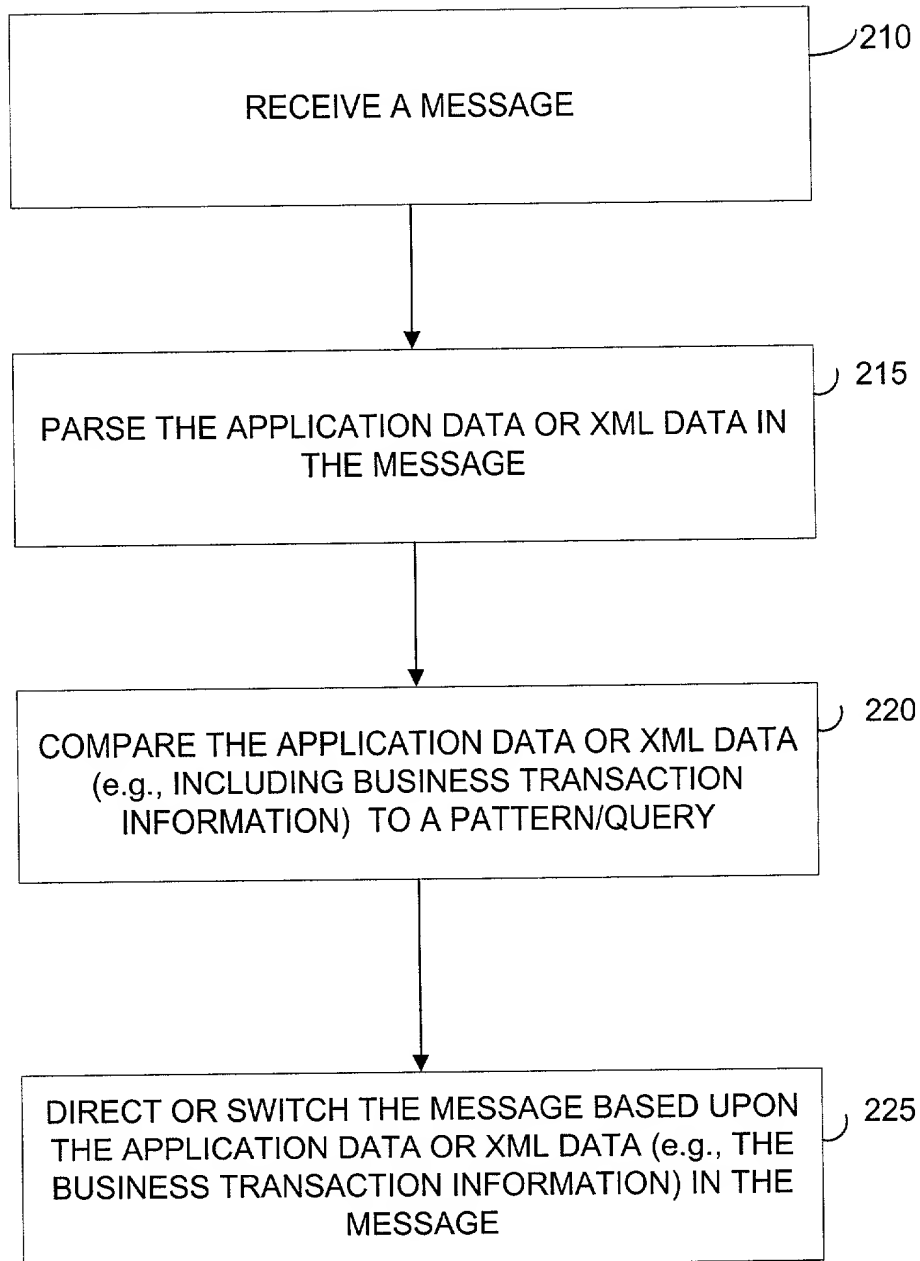


FIG. 2

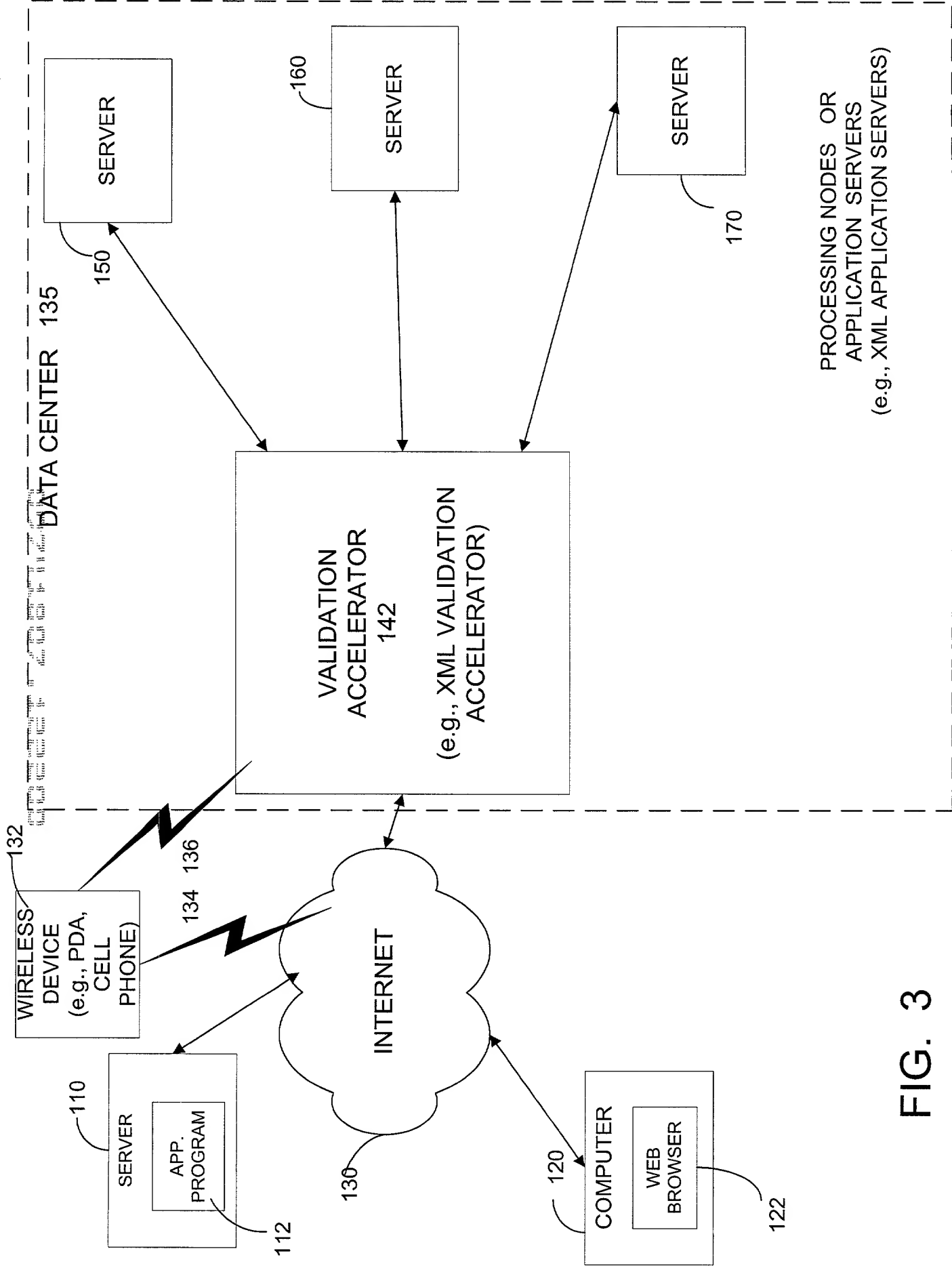


FIG. 3

EXAMPLE MESSAGE
OR DOCUMENT
(A XML DOCUMENT
IN THIS EXAMPLE)

EXTERNAL
COMPONENT
IDENTIFIER 417

VALIDATION
INSTRUCTIONS 415
(PROVIDING OR
IDENTIFYING A
VALIDATION TEMPLATE)

INTERNAL
COMPONENT
419

EXAMPLE
XML
DOCUMENT
410

<!DOCTYPE hogsforsale "hogs.dtd" [

<!Element Type ... >
<!Element AvgWt ... >
<!Element Quantity ... >
<!Element Price_Hog ... >] >

<XML>
<Hogs For Sale>
 <Type> Virginia Hogs </Type>
 <AvgWt> 110 LBS </Avg Wt>
 <Quantity> 32 </Quantity>
 <Price_Hog> 100 <Price_Hog>
</Hogs For Sale>

</XML>

XML APPLICATION
DATA
420

FIG. 4

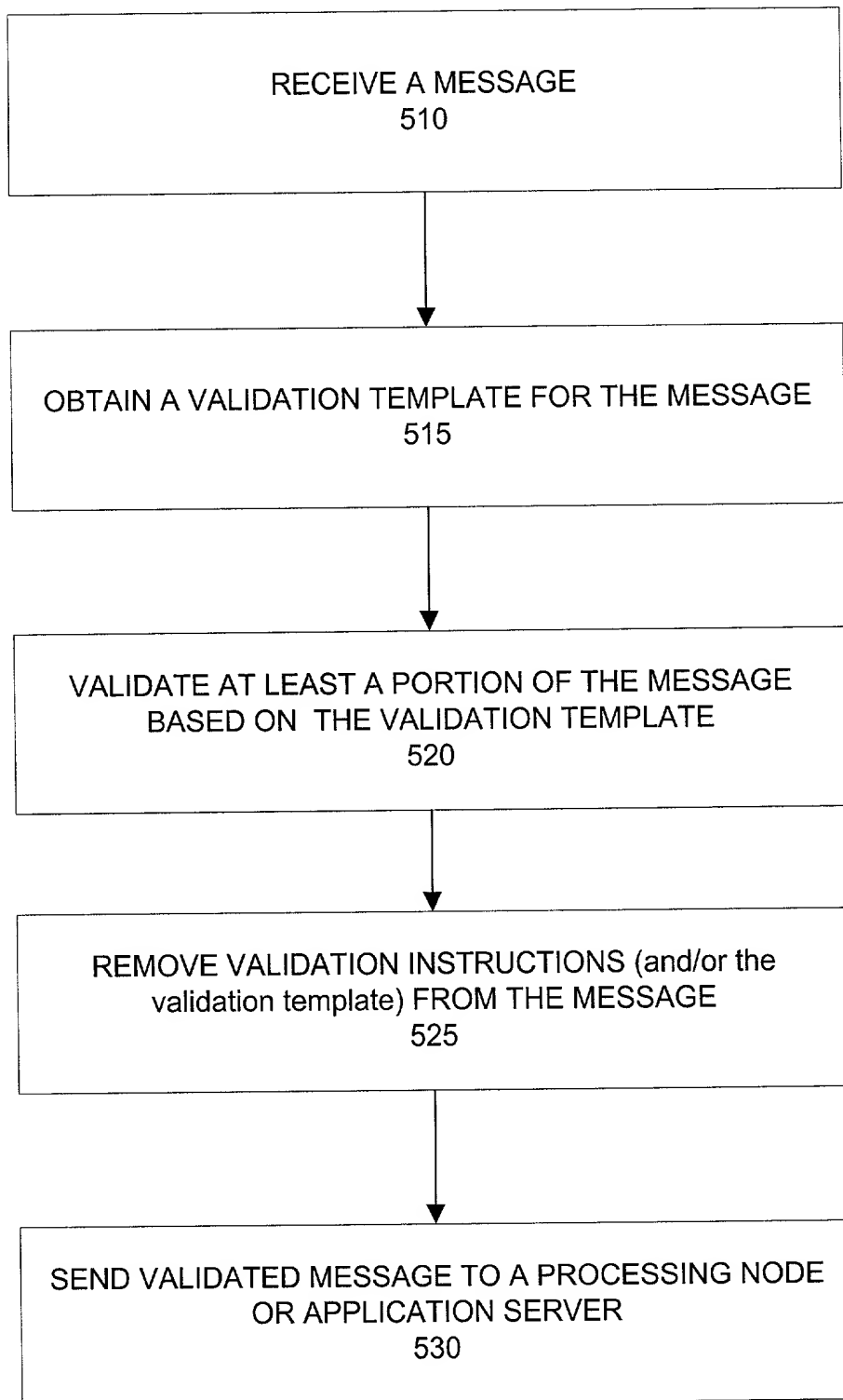


FIG. 5

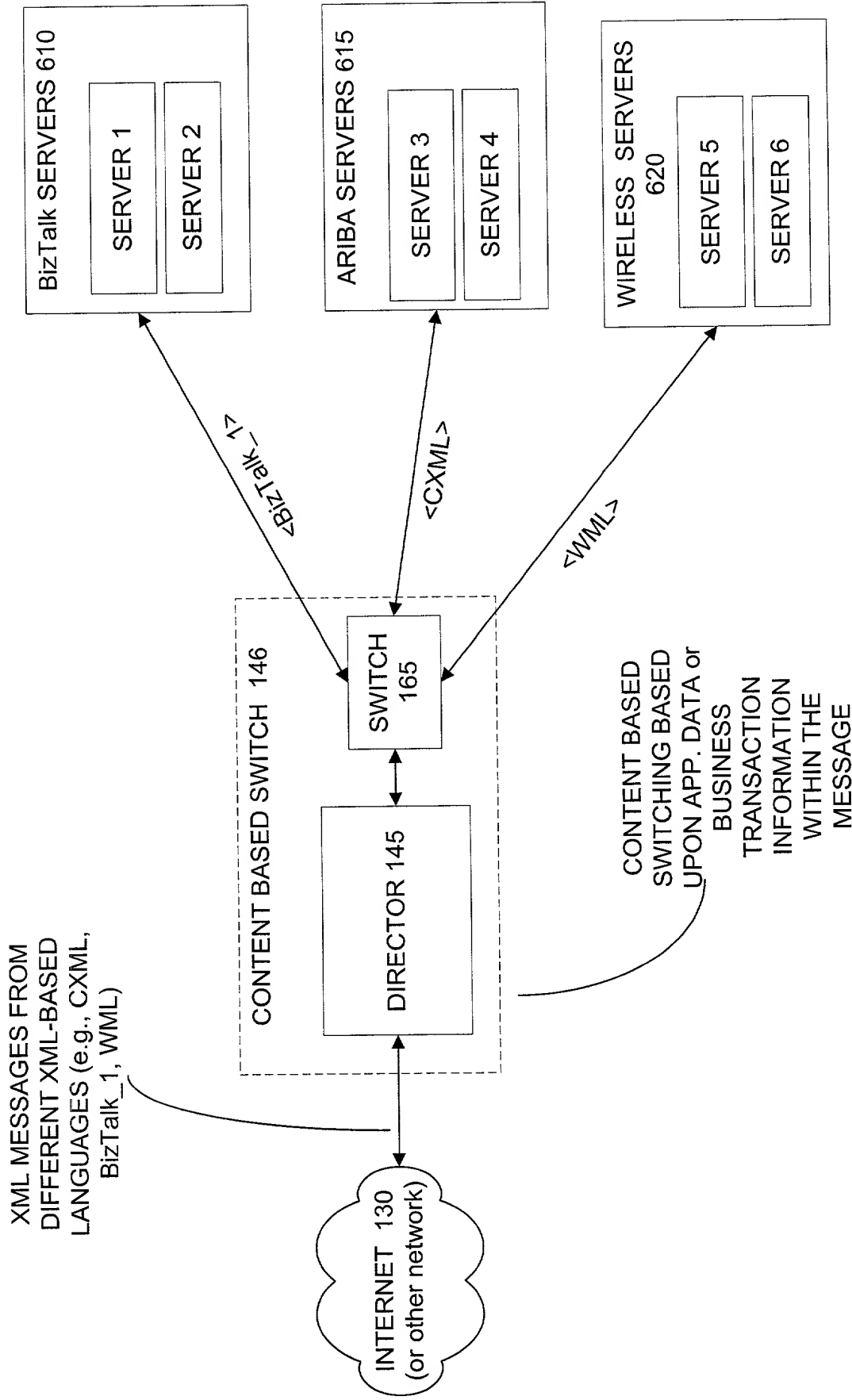


FIG. 6

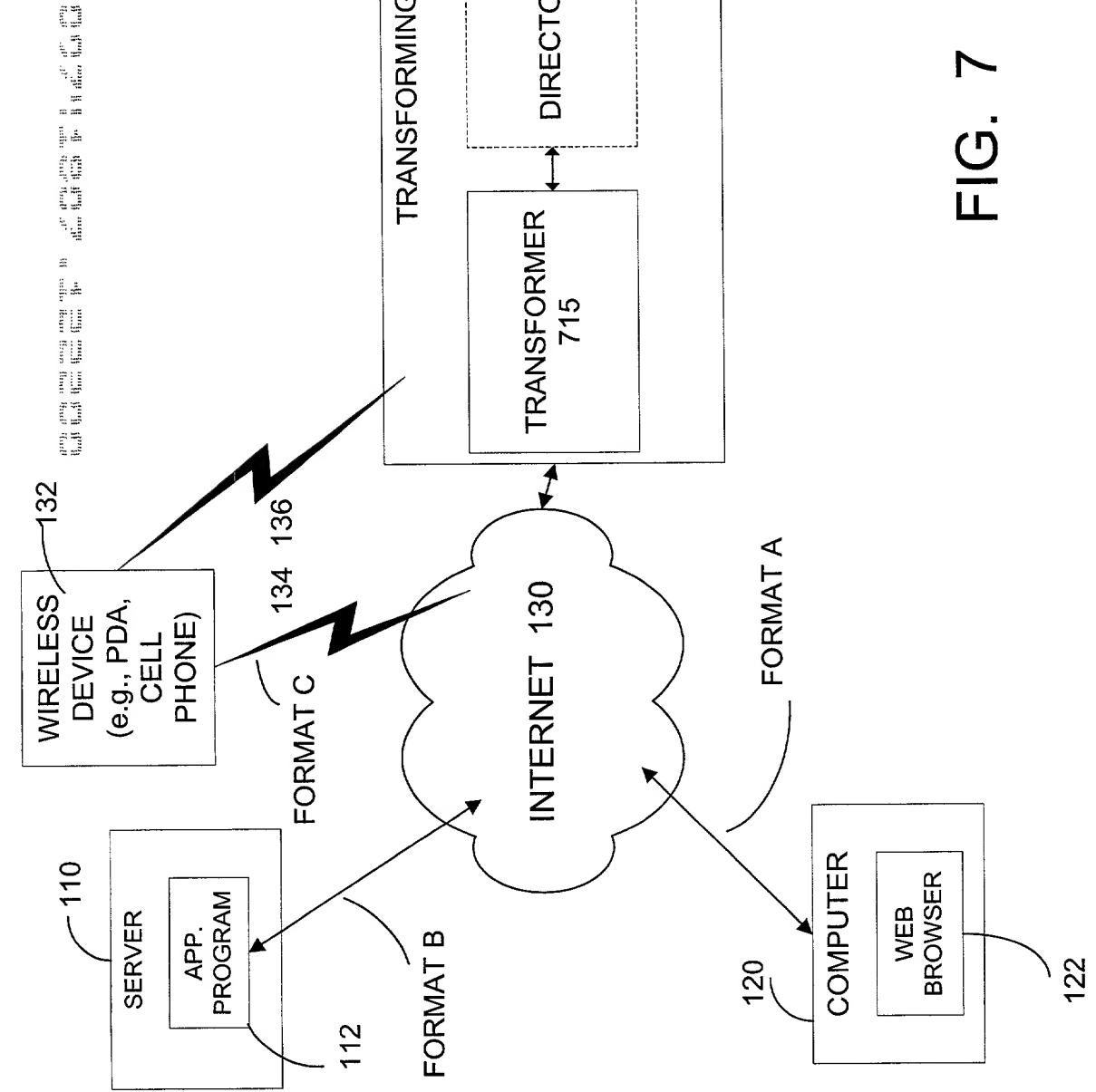


FIG. 7

PROCESSING NODES OR
APPLICATION SERVERS
(e.g., XML APPLICATION SERVERS)

FIG. 8 is a block diagram of a transforming switch 710A, according to one embodiment of the present invention.

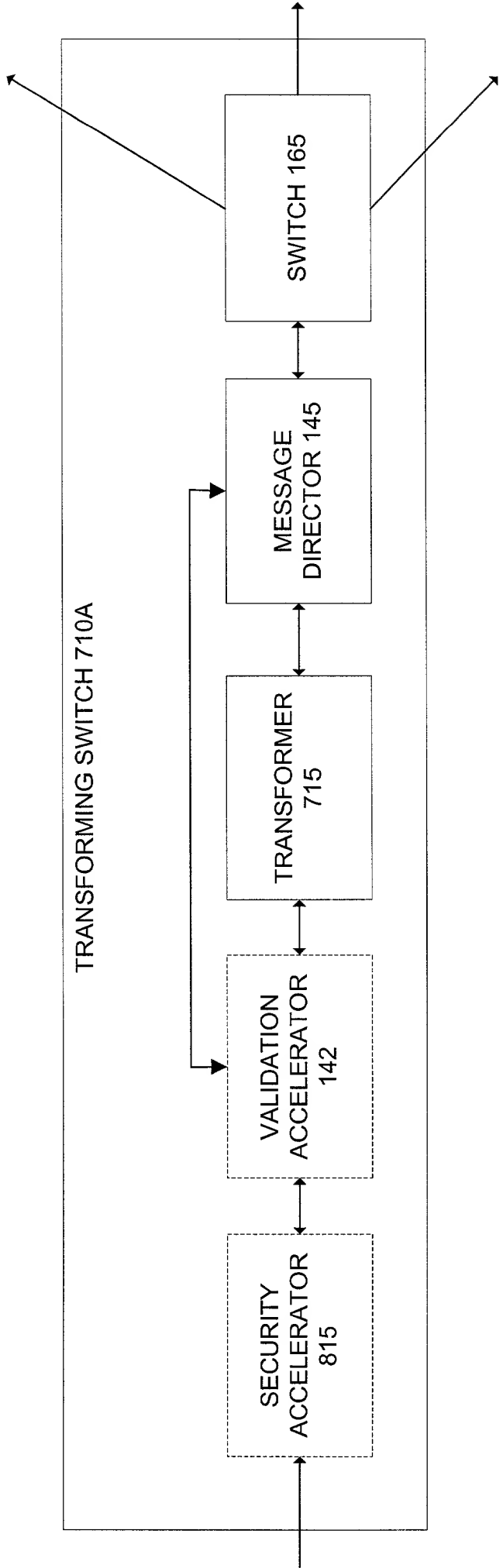


FIG. 8

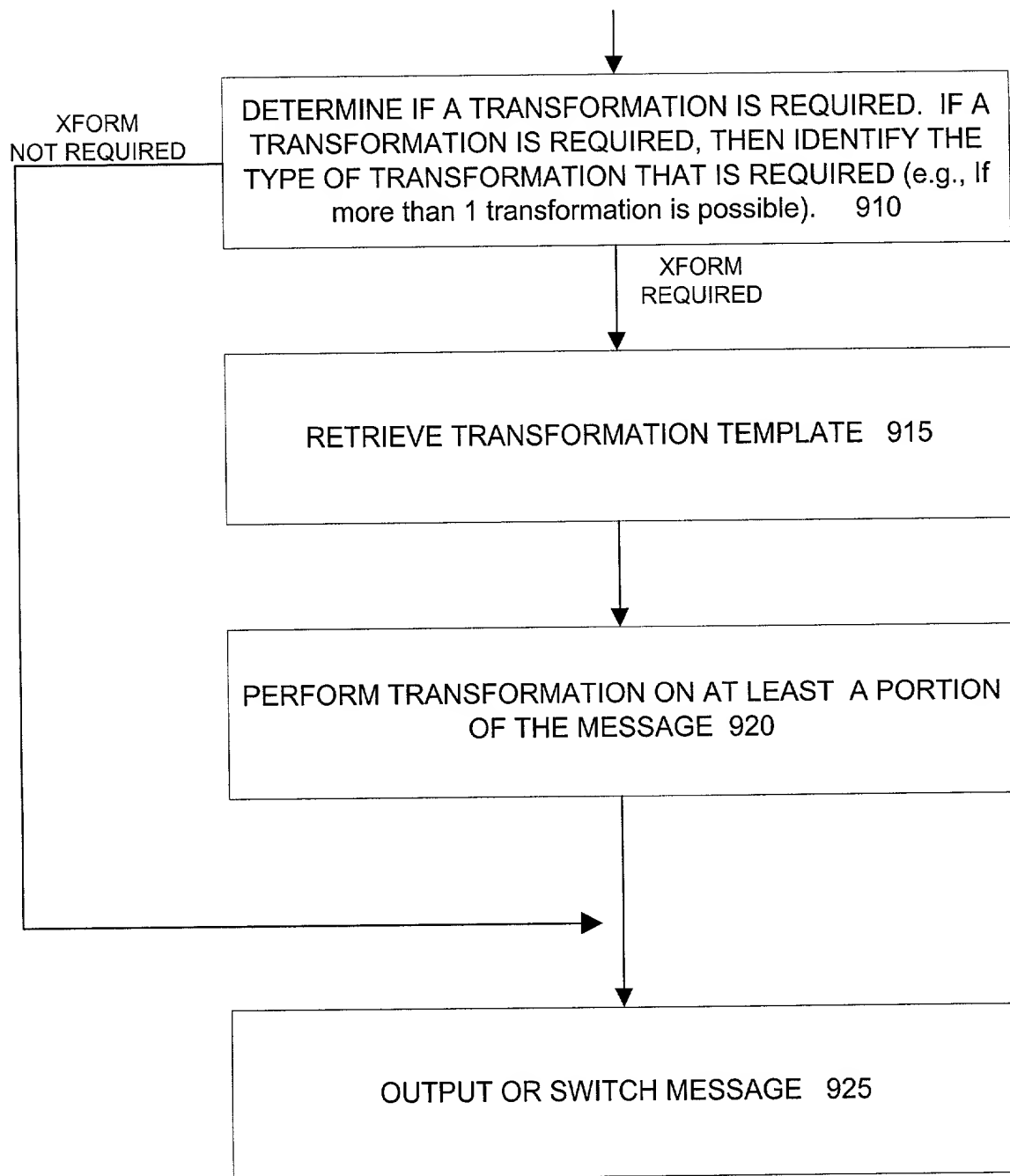


FIG. 9

Format Transformation (Outbound)

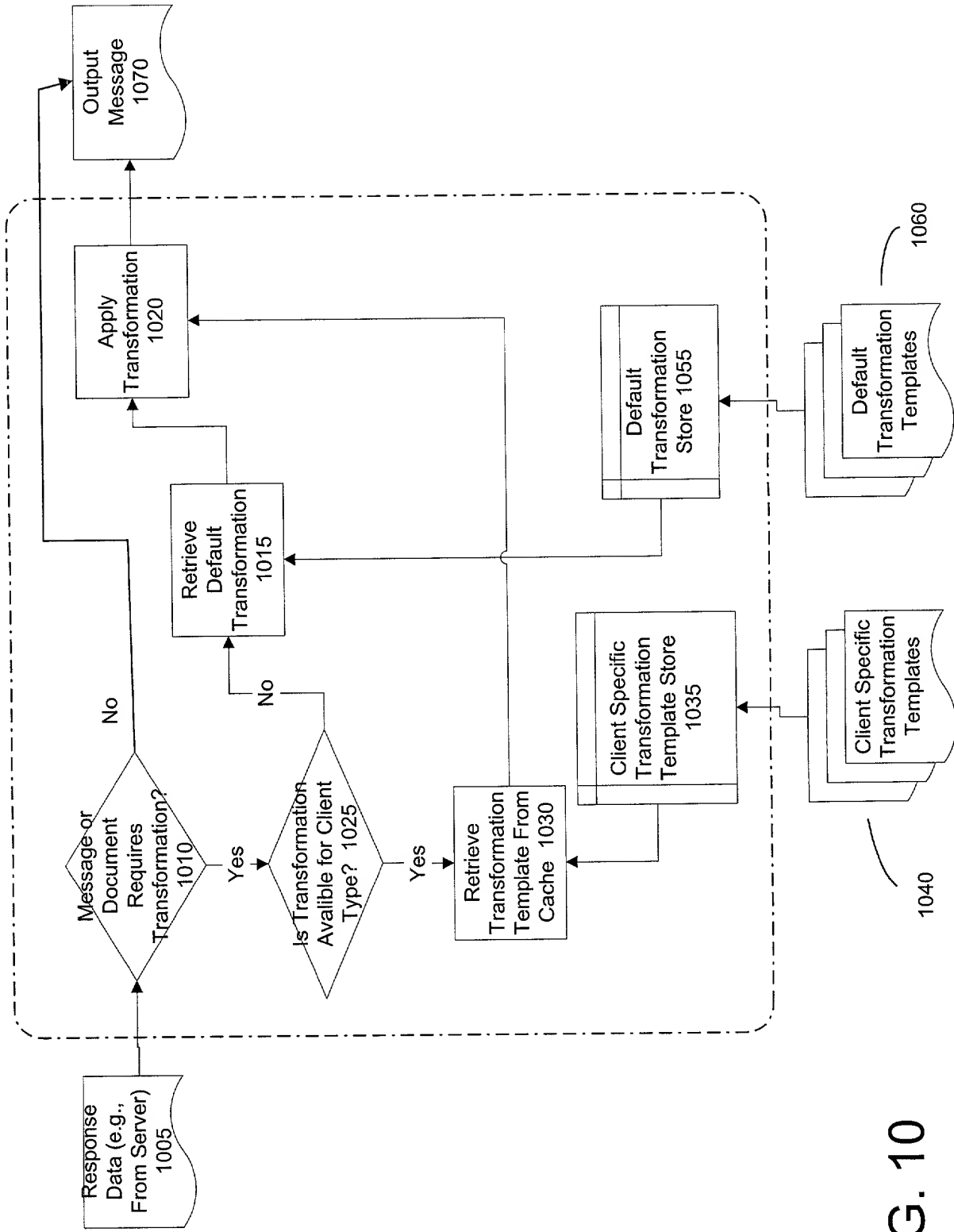


FIG. 10